

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A flat-type antenna apparatus which has a radiating conductor and a reference conductor disposed opposite to each other and performs feeding between said radiating conductor and said reference conductor at a position offset from the center of said radiating conductor center, said antenna comprising:

an insulative material layer which has relative magnetic permeability greater than 1 and is placed in a gap between said a radiating conductor and said reference conductor; and  
a short-circuiting conductor which is disposed at a position to suppress unintended excitation and enables electric conduction between said radiating conductor and said reference conductor.

Claim 2 (Currently Amended): A flat-type antenna apparatus which has a radiating conductor and a reference conductor disposed opposite to each other and performs feeding between said radiating conductor and said reference conductor at a position offset from the center of said radiating conductor center, said antenna comprising:

an intermediate layer comprising a plurality of layers such as an insulative material layer and an empty layer in a gap between said a radiating conductor and said reference conductor, wherein said insulative material layer has relative permittivity and relative magnetic permeability both greater than 1.

Claim 3 (Currently Amended): The antenna apparatus according to claim 1 or 2, wherein said insulative material layer comprises hexagonal ferrite.

Claim 4 (Original): The antenna apparatus according to claim 3, wherein said insulative material layer is made of an oxide magnetic material comprising a Y-type ferrite compound represented by general formula  $\text{Ba}_2\text{Me}^1_2\text{Fe}_{12}\text{O}_{22}$  (where  $\text{Me}^1$  is appropriately selected from one or more of  $\text{Ni}^{2+}$ ,  $\text{Zn}^{2+}$ ,  $\text{Mn}^{2+}$ ,  $\text{Mg}^{2+}$ ,  $\text{Cu}^{2+}$ ,  $\text{Fe}^{2+}$ , and  $\text{Co}^{2+}$  to adjust composition).

Claim 5 (Original): The antenna apparatus according to claim 3, wherein said insulative material layer is made of an oxide magnetic material comprising a Z-type ferrite compound represented by general formula  $\text{Ba}_3\text{Me}^1_2\text{Fe}_{24}\text{O}_{41}$  (where  $\text{Me}^1$  is appropriately selected from one or more of  $\text{Ni}^{2+}$ ,  $\text{Zn}^{2+}$ ,  $\text{Mn}^{2+}$ ,  $\text{Mg}^{2+}$ ,  $\text{Cu}^{2+}$ ,  $\text{Fe}^{2+}$ , and  $\text{Co}^{2+}$  to adjust composition).

Claim 6 (Original): The antenna apparatus according to claim 3, wherein said insulative material layer is made of an oxide magnetic material comprising an M-type ferrite compound represented by general formula  $\text{BaMe}^2_x\text{Fe}_{(12-x)}\text{O}_{19}$  (where  $\text{Me}^2$  is appropriately selected from one or more of  $\text{Al}^{3+}$ ,  $\text{Cr}^{3+}$ ,  $\text{Sc}^{3+}$ , and  $\text{In}^{3+}$  to adjust composition, or is a mixture of the same amount of  $(\text{Ti}^{4+}$ ,  $\text{Sn}^{4+}$ ,  $\text{Zn}^{4+})$  and  $\text{Me}^1$ ).

Claim 7 (Currently Amended): The antenna apparatus according to claims 4 through 6, wherein said insulative material layer is made of said oxide magnetic materials as pulverized materials and is complexed with resin to form a resin complex.

Claim 8 (New): The antenna apparatus according to claim 2, wherein said insulative material layer comprises hexagonal ferrite.